GRADUATE EMBEDDED CERTIFICATE IN BIOROBOTICS

The Biorobotics Certificate program is offered through the School of Electrical and Computer Engineering. The program, an initiative resulting from the NSF Research Traineeship (NRT) program in healthcare robotics, is open to graduate students enrolled in any degree program at the Georgia Institute of Technology. The motivation for developing this certificate program is to encourage the development of bold, new, transformative, and scalable models for STEM graduate training in robotics.

The Biorobotics Certificate will equip each student with the fundamentals of robotics coupled with engineering, biological science, and ethics. It is an interdisciplinary program that expands opportunities for students in emerging field of biorobotics.

Program of Study

Code	Title	Credit Hours
Required courses		
ECE 7785	Introduction to Robotics Research	3
or BMED 77	Introduction to Robotics Research	
or ME 7785	Introduction to Robotics Research	
ECE 8750	Robotics Research Foundation I	3
or BMED 875	Multidisciplinary Robotics Research I	
or ME 8750	Robotics Research Foundation I	
Electives		**6**
BMED 8813	Special Topics	
BMED 6739	Medical Robotics	
PHIL 6710	Ethics of Biotechnology and Bioengineering Research	
ECE 6781	Biomedical Sensing Systems	
ECE 8823	Special Topics (Clinical Experiences for Engineers)	
or BMED 8823	Special Topics	
ME 8843	Special Topics in Automation and Mechatronics (Automation)	
APPH 6231	Biomechanical Aspects of Human Motor Control	
APPH 6232	Locomotion Neuromechanics	
APPH 6236	Neuromuscular Physiology	
APPH 6400	Human Neuroanatomy	
APPH 6746	Rehabilitation Engineering	
or ME 6746	Rehabilitation Engineering	
Total Credit Hours		**12**

The requirements outlined below are supplemental to the certificate requirements established by the Georgia Institute of Technology:

- Student must complete a graduate degree in any academic unit of the Georgia Institute of Technology
- Student must complete two Biorobotics core courses, both with a grade of B or higher
- Student must complete two Biorobotics electives, both with a grade of B or higher